FIG. 1

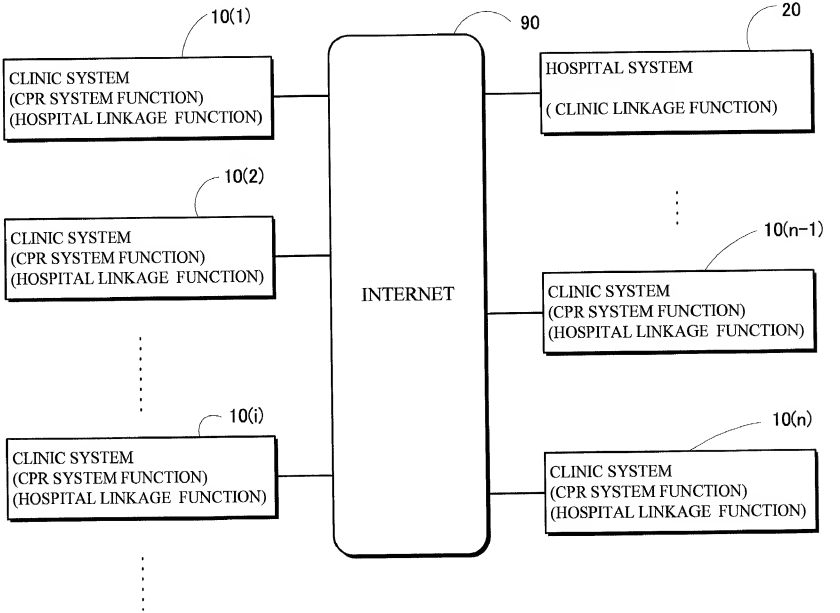
10(1)
CLINIC SYSTEM
(CPR SYSTEM FUNCTION)
(HOSPITAL LINKAGE FUNCTION)
10(2)
CLINIC SYSTEM
(CPR SYSTEM FUNCTION)
(HOSPITAL LINKAGE FUNCTION)
10(i)
CLINIC SYSTEM
(CPR SYSTEM FUNCTION)
(HOSPITAL LINKAGE FUNCTION)
90
INTERNET
20
HOSPITAL SYSTEM
(CLINIC LINKAGE FUNCTION)
10(n-1)
CLINIC SYSTEM
(CPR SYSTEM FUNCTION)
(HOSPITAL LINKAGE FUNCTION)
10(n)
CLINIC SYSTEM
(CPR SYSTEM FUNCTION)
(HOSPITAL LINKAGE FUNCTION)

FIG. 2

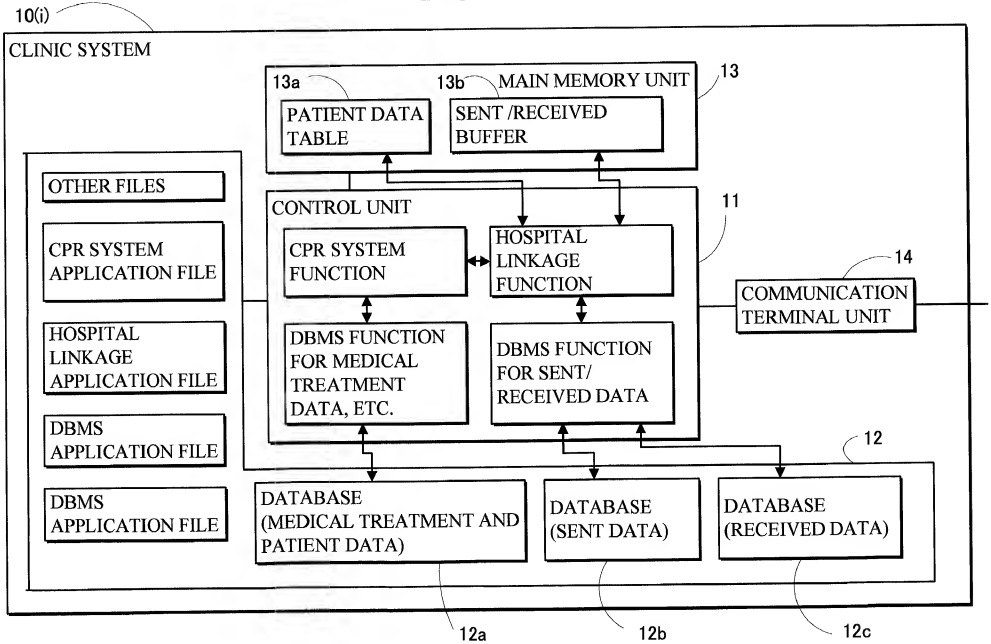
10(i)
CLINIC SYSTEM
13a
13b
MAIN MEMORY UNIT
13
PATIENT DATA TABLE
SENT /RECEIVED BUFFER
OTHER FILES
CONTROL UNIT
11
CPR SYSTEM APPLICATION FILE
CPR SYSTEM FUNCTION
HOSPITAL LINKAGE FUNCTION
14
COMMUNICATION TERMINAL UNIT
HOSPITAL LINKAGE APPLICATION FILE
DBMS FUNCTION FOR MEDICAL TREATMENT DATA, ETC.
DBMS FUNCTION FOR SENT/ RECEIVED DATA
DBMS APPLICATION FILE
12
DBMS APPLICATION FILE
DATABASE (MEDICAL TREATMENT AND PATIENT DATA)
DATABASE (SENT DATA)
DATABASE (RECEIVED DATA)
12a
12b
12c

FIG. 3

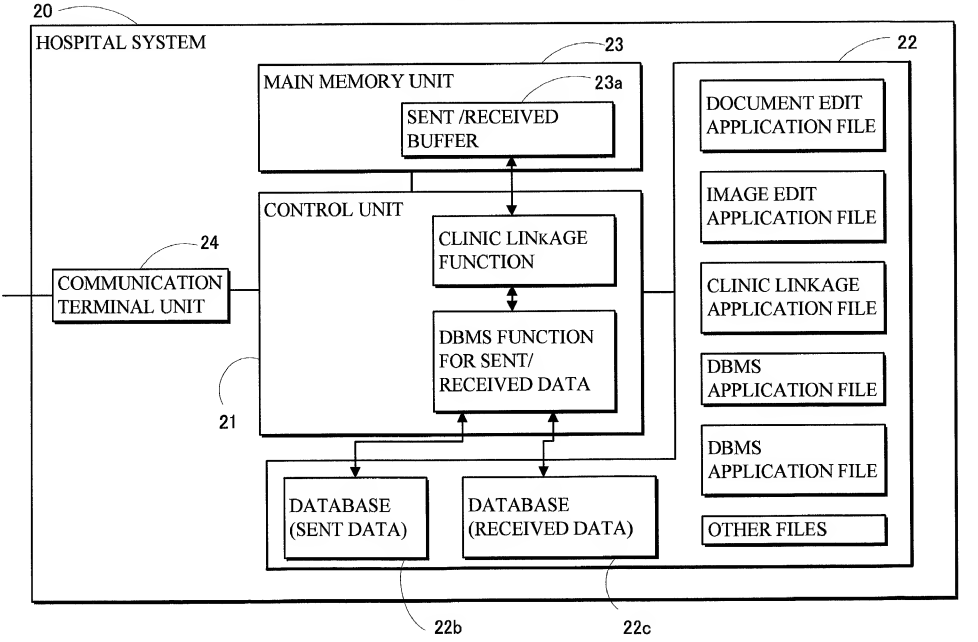
20
HOSPITAL SYSTEM
23
MAIN MEMORY UNIT
23a
SENT /RECEIVED BUFFER
22
DOCUMENT EDIT APPLICATION FILE
IMAGE EDIT APPLICATION FILE
CLINIC LINKAGE APPLICATION FILE
DBMS APPLICATION FILE
DBMS APPLICATION FILE
OTHER FILES
CONTROL UNIT
CLINIC LINKAGE FUNCTION
DBMS FUNCTION FOR SENT/ RECEIVED DATA
21
24
COMMUNICATION TERMINAL UNIT
DATABASE (SENT DATA)
DATABASE (RECEIVED DATA)
22b
22c

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FIG. 4

DATABASE (SENT DATA)

KEY

12b

E-MAIL ID	SUBJECT	SENT-TO ID	SENT-FROM ID	INQUIRY CONTENTS	CHIEF COMPLAINT AND PRESENT ILLNESS
1	About Symtoms Of Diabetes	100	i	.....	.....
2	Confirmation Of Test Results	100	i	.....	.....
3	Confirmation Of Electrocardiogram	100	i	.....	.....
4	About This Patient	100	i	.....	.....

DATABASE (RECEIVED DATA)

KEY

12c

E-MAIL ID	SUBJECT	RECEIVER ID	REPRIED-FROM ID	REPLY CONTENTS	ATTACHMENT DATA
1	About Symtoms Of Diabetes	i	100	.....	.....
2	Confirmation Of Test Results	i	100	.....	.....
4	About This Patient	i	100	.....	.....
5	Confirmation Of Electrocardiogram	i	100	.....	.....

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FIG. 5

DATABASE (SENT DATA)

KEY

22b

E-MAIL ID	SUBJECT	REPLIED-TO ID	REPLIED-FROM ID	REPLY CONTENTS	ATTACHMENT DATA
1	About Symtoms Of Liver Disease	i-2	100	.....	.....
1	About Degree Of Kidney Disease	i-1	100	.....	.....
1	About Symptoms Of Diabetes	i	100	.....	.....
1	About Symptoms Of Liver Test Results	i+1	100	.....	.....

DATABASE (RECEIVED DATA)

KEY

22c

E-MAIL ID	SUBJECT	RECEIVER ID	SENT-FROM ID	INQUIRY CONTENTS	CHIEF COMPLAINT AND PRESENT ILLNESS
1	About Symtoms Of Liver Disease	100	i-2	.....	.....
1	About Degree Of Kidney Disease	100	i-1	.....	.....
1	About Symptoms Of Diabetes	100	i	.....	.....
1	About Symptoms Of Liver Test Results	100	i+1	.....	.....

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FIG. 6

PATIENT DATA TABLE (PATIENT ID = j) 13a

DATA NAME	PERMIT/PROHIBIT (DO/NOT DO) <SENDING AND EDITING>	DATA CONTENTS
NAME	Permit	KAWANO Ikuko
NAME IN SYLLABLE	Permit	Ka-wa-no I-ku-ko
SEX	Permit	Famale
DATE OF BIRTH	Permit	05/05/80
AGE	Permit	20
OCCUPATION	Permit	student

DATABASE (MEDICAL TREATMENT AND PATIENT DATA) 12a

PATIENT ID	NAME	NAME IN SYLLABLE	SEX	DATE OF BIRTH	AGE	OCCU-PATION	PHONE	ADDRESS
⋮	⋮							
j-1	TANAKA Yosiko	Ta-na-ka Yo-si-ko	Female	06/12/70	30	Housewife	.....	.....
j	KAWANO Ikuko	Ka-wa-no I-ku-ko	Female	05/05/80	20	Student	.....	.....
j+1	SUZUKI Taro	Su-zu-ki Ta-ro	Male	10/10/75	24	Company employee	.....	.....

FIG. 7

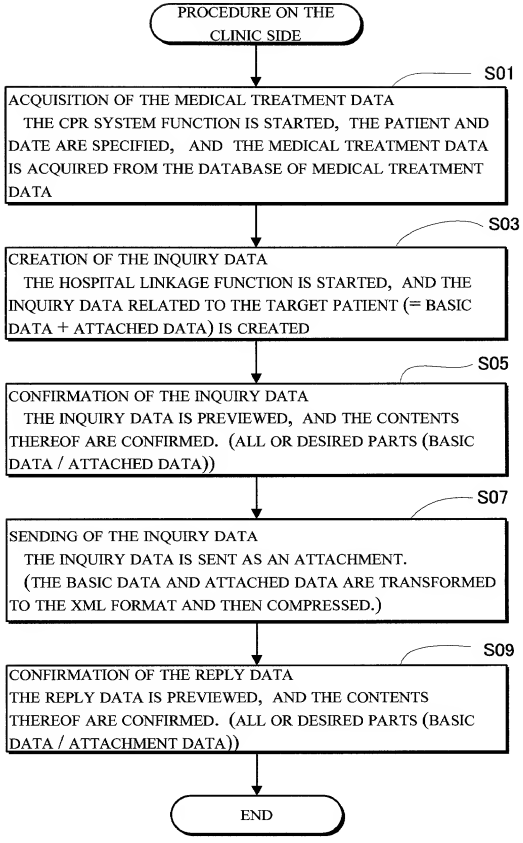
PROCEDURE ON THE CLINIC SIDE
S01
ACQUISITION OF THE MEDICAL TREATMENT DATA
THE CPR SYSTEM FUNCTION IS STARTED, THE PATIENT AND DATE ARE SPECIFIED, AND THE MEDICAL TREATMENT DATA IS ACQUIRED FROM THE DATABASE OF MEDICAL TREATMENT DATA
S03
CREATION OF THE INQUIRY DATA
THE HOSPITAL LINKAGE FUNCTION IS STARTED, AND THE INQUIRY DATA RELATED TO THE TARGET PATIENT (= BASIC DATA + ATTACHED DATA) IS CREATED
S05
CONFIRMATION OF THE INQUIRY DATA
THE INQUIRY DATA IS PREVIEWED, AND THE CONTENTS THEREOF ARE CONFIRMED. (ALL OR DESIRED PARTS (BASIC DATA / ATTACHED DATA))
S07
SENDING OF THE INQUIRY DATA
THE INQUIRY DATA IS SENT AS AN ATTACHMENT.
(THE BASIC DATA AND ATTACHED DATA ARE TRANSFORMED TO THE XML FORMAT AND THEN COMPRESSED.)
S09
CONFIRMATION OF THE REPLY DATA
THE REPLY DATA IS PREVIEWED, AND THE CONTENTS THEREOF ARE CONFIRMED. (ALL OR DESIRED PARTS (BASIC DATA / ATTACHMENT DATA))
END

FIG. 8

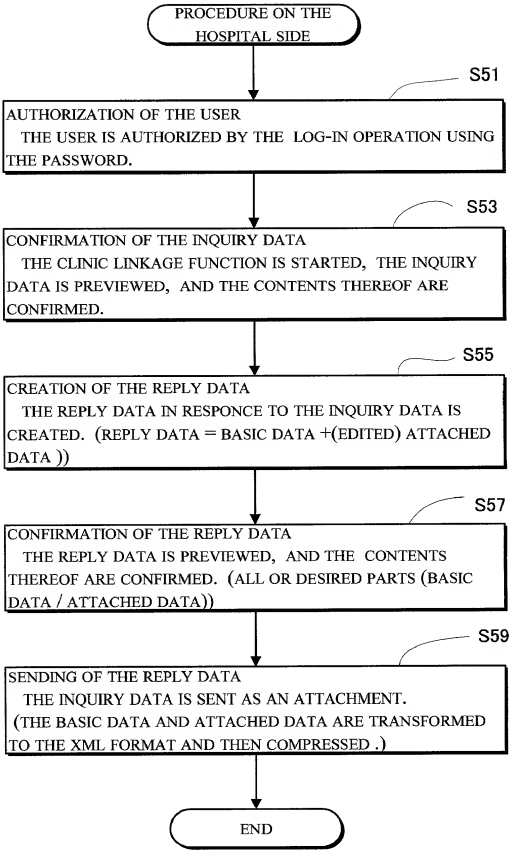
PROCEDURE ON THE HOSPITAL SIDE
S51
AUTHORIZATION OF THE USER
THE USER IS AUTHORIZED BY THE LOG-IN OPERATION USING THE PASSWORD.
S53
CONFIRMATION OF THE INQUIRY DATA
THE CLINIC LINKAGE FUNCTION IS STARTED, THE INQUIRY DATA IS PREVIEWED, AND THE CONTENTS THEREOF ARE CONFIRMED.
S55
CREATION OF THE REPLY DATA
THE REPLY DATA IN RESPONCE TO THE INQUIRY DATA IS CREATED. (REPLY DATA = BASIC DATA +(EDITED) ATTACHED DATA))
S57
CONFIRMATION OF THE REPLY DATA
THE REPLY DATA IS PREVIEWED, AND THE CONTENTS THEREOF ARE CONFIRMED. (ALL OR DESIRED PARTS (BASIC DATA / ATTACHED DATA))
S59
SENDING OF THE REPLY DATA
THE INQUIRY DATA IS SENT AS AN ATTACHMENT.
(THE BASIC DATA AND ATTACHED DATA ARE TRANSFORMED TO THE XML FORMAT AND THEN COMPRESSED .)
END

FIG. 9(a)

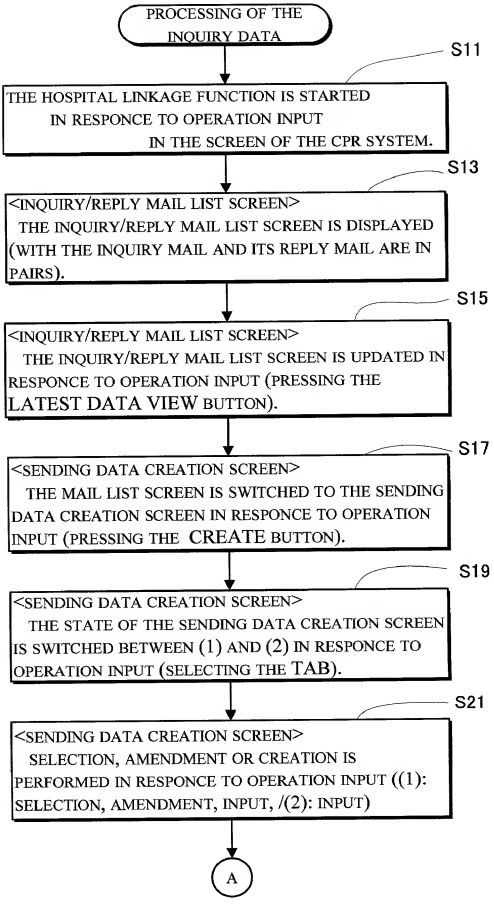
PROCESSING OF THE INQUIRY DATA
S11
THE HOSPITAL LINKAGE FUNCTION IS STARTED IN RESPONCE TO OPERATION INPUT IN THE SCREEN OF THE CPR SYSTEM.
S13
<INQUIRY/REPLY MAIL LIST SCREEN> THE INQUIRY/REPLY MAIL LIST SCREEN IS DISPLAYED (WITH THE INQUIRY MAIL AND ITS REPLY MAIL ARE IN PAIRS).
S15
<INQUIRY/REPLY MAIL LIST SCREEN> THE INQUIRY/REPLY MAIL LIST SCREEN IS UPDATED IN RESPONCE TO OPERATION INPUT (PRESSING THE LATEST DATA VIEW BUTTON).
S17
<SENDING DATA CREATION SCREEN> THE MAIL LIST SCREEN IS SWITCHED TO THE SENDING DATA CREATION SCREEN IN RESPONCE TO OPERATION INPUT (PRESSING THE CREATE BUTTON).
S19
<SENDING DATA CREATION SCREEN> THE STATE OF THE SENDING DATA CREATION SCREEN IS SWITCHED BETWEEN (1) AND (2) IN RESPONCE TO OPERATION INPUT (SELECTING THE TAB).
S21
<SENDING DATA CREATION SCREEN> SELECTION, AMENDMENT OR CREATION IS PERFORMED IN RESPONCE TO OPERATION INPUT ((1): SELECTION, AMENDMENT, INPUT, /(2): INPUT)
A

FIG. 9(b)

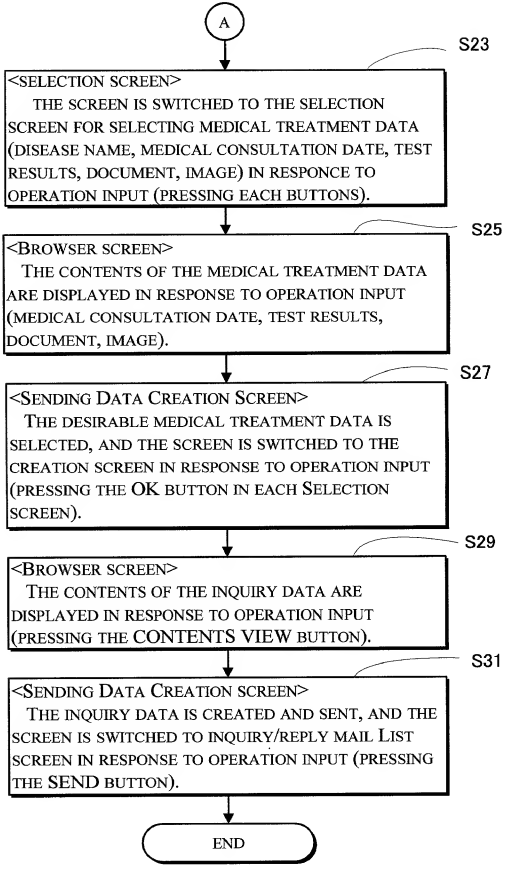

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FIG. 10(a)

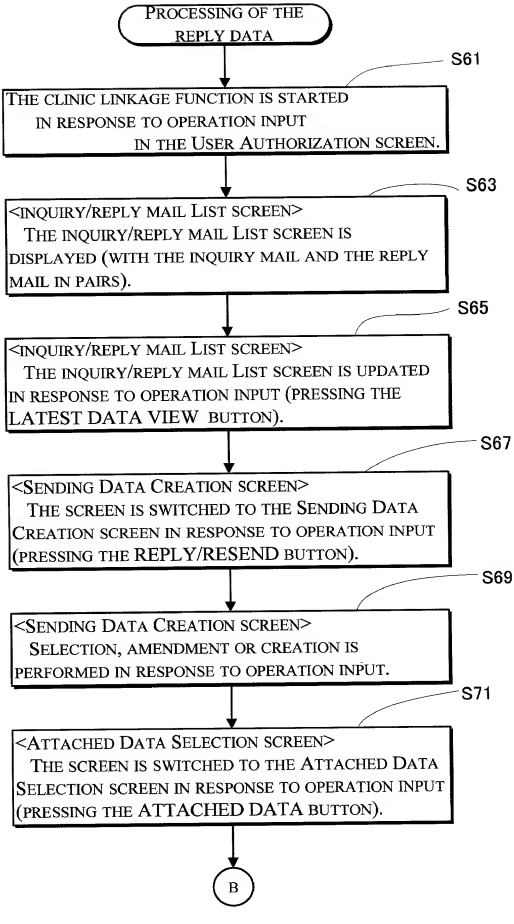
PROCESSING OF THE REPLY DATA
S61
THE CLINIC LINKAGE FUNCTION IS STARTED IN RESPONSE TO OPERATION INPUT IN THE USER AUTHORIZATION SCREEN.
S63
<INQUIRY/REPLY MAIL LIST SCREEN>
THE INQUIRY/REPLY MAIL LIST SCREEN IS DISPLAYED (WITH THE INQUIRY MAIL AND THE REPLY MAIL IN PAIRS).
S65
<INQUIRY/REPLY MAIL LIST SCREEN>
THE INQUIRY/REPLY MAIL LIST SCREEN IS UPDATED IN RESPONSE TO OPERATION INPUT (PRESSING THE LATEST DATA VIEW BUTTON).
S67
<SENDING DATA CREATION SCREEN>
THE SCREEN IS SWITCHED TO THE SENDING DATA CREATION SCREEN IN RESPONSE TO OPERATION INPUT (PRESSING THE REPLY/RESEND BUTTON).
S69
<SENDING DATA CREATION SCREEN>
SELECTION, AMENDMENT OR CREATION IS PERFORMED IN RESPONSE TO OPERATION INPUT.
S71
<ATTACHED DATA SELECTION SCREEN>
THE SCREEN IS SWITCHED TO THE ATTACHED DATA SELECTION SCREEN IN RESPONSE TO OPERATION INPUT (PRESSING THE ATTACHED DATA BUTTON).
B

FIG. 10(b)

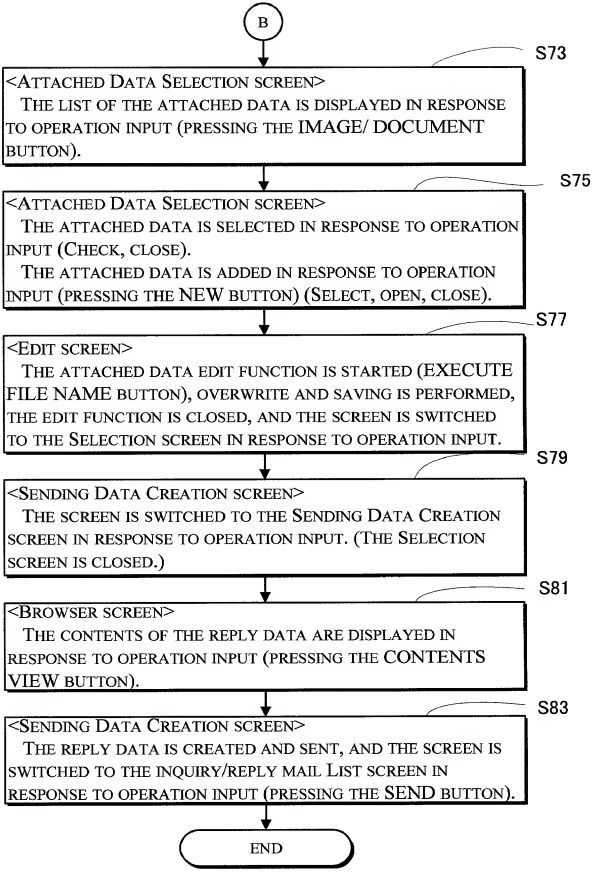
B
S73
<ATTACHED DATA SELECTION SCREEN>
THE LIST OF THE ATTACHED DATA IS DISPLAYED IN RESPONSE TO OPERATION INPUT (PRESSING THE IMAGE/ DOCUMENT BUTTON).
S75
<ATTACHED DATA SELECTION SCREEN>
THE ATTACHED DATA IS SELECTED IN RESPONSE TO OPERATION INPUT (CHECK, CLOSE).
THE ATTACHED DATA IS ADDED IN RESPONSE TO OPERATION INPUT (PRESSING THE NEW BUTTON) (SELECT, OPEN, CLOSE).
S77
<EDIT SCREEN>
THE ATTACHED DATA EDIT FUNCTION IS STARTED (EXECUTE FILE NAME BUTTON), OVERWRITE AND SAVING IS PERFORMED, THE EDIT FUNCTION IS CLOSED, AND THE SCREEN IS SWITCHED TO THE SELECTION SCREEN IN RESPONSE TO OPERATION INPUT.
S79
<SENDING DATA CREATION SCREEN>
THE SCREEN IS SWITCHED TO THE SENDING DATA CREATION SCREEN IN RESPONSE TO OPERATION INPUT. (THE SELECTION SCREEN IS CLOSED.)
S81
<BROWSER SCREEN>
THE CONTENTS OF THE REPLY DATA ARE DISPLAYED IN RESPONSE TO OPERATION INPUT (PRESSING THE CONTENTS VIEW BUTTON).
S83
<SENDING DATA CREATION SCREEN>
THE REPLY DATA IS CREATED AND SENT, AND THE SCREEN IS SWITCHED TO THE INQUIRY/REPLY MAIL LIST SCREEN IN RESPONSE TO OPERATION INPUT (PRESSING THE SEND BUTTON).
END

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FIG. 11

INQUIRY/REPLY MAIL LIST SCREEN (CLINIC SIDE)

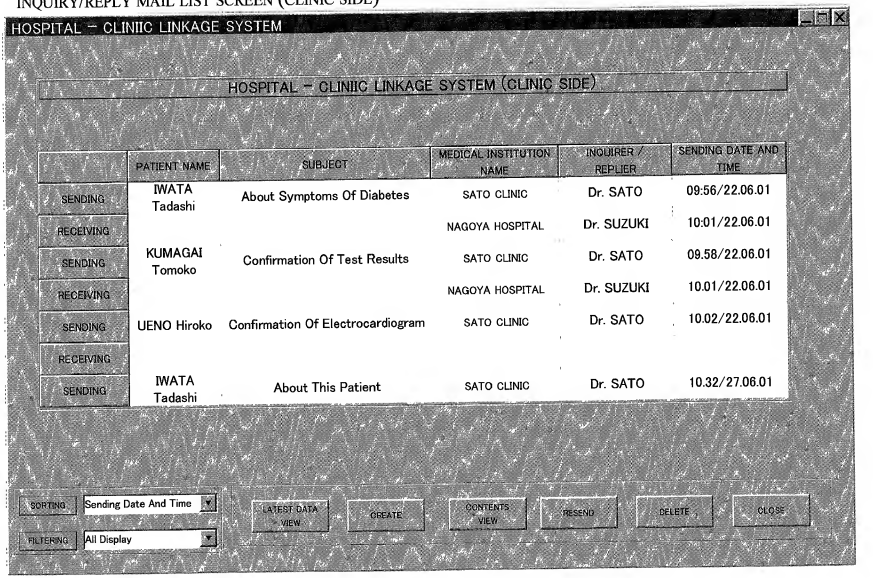

FIG. 12

SENDING DATA CREATION SCREEN (TAB (1) STATE, CLINIC SIDE)

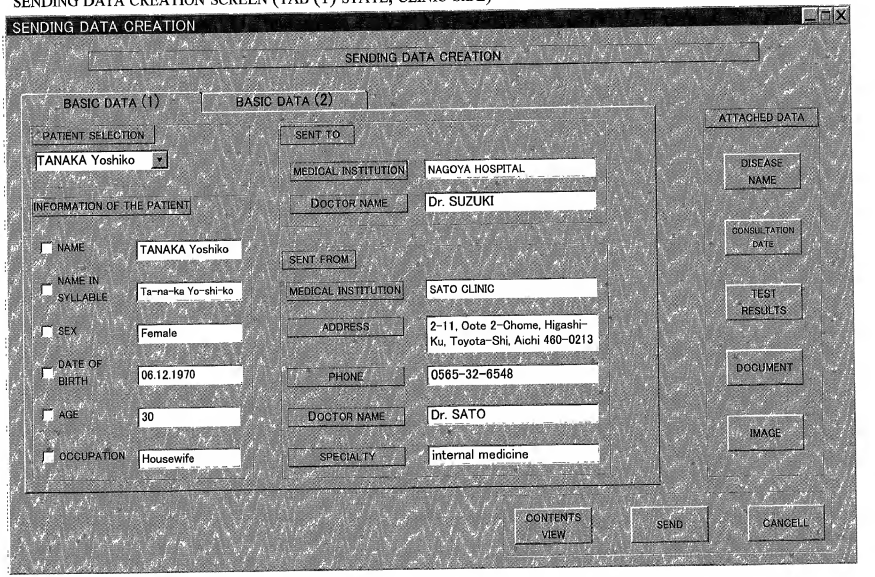

FIG. 13

SENDING DATA CREATION SCREEN (TAB (2) STATE, CLINIC SIDE)

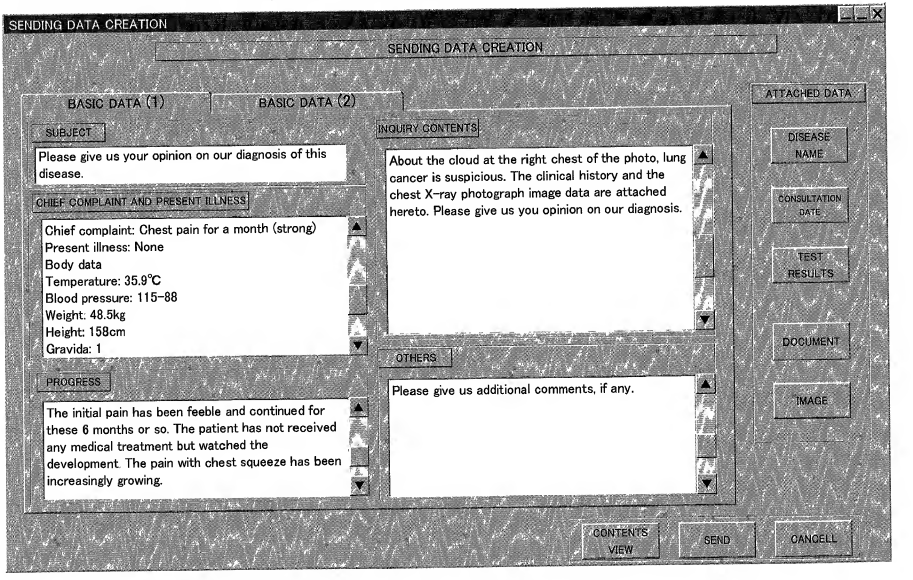

FIG. 14

DISEASE NAME SELECTION SCREEN

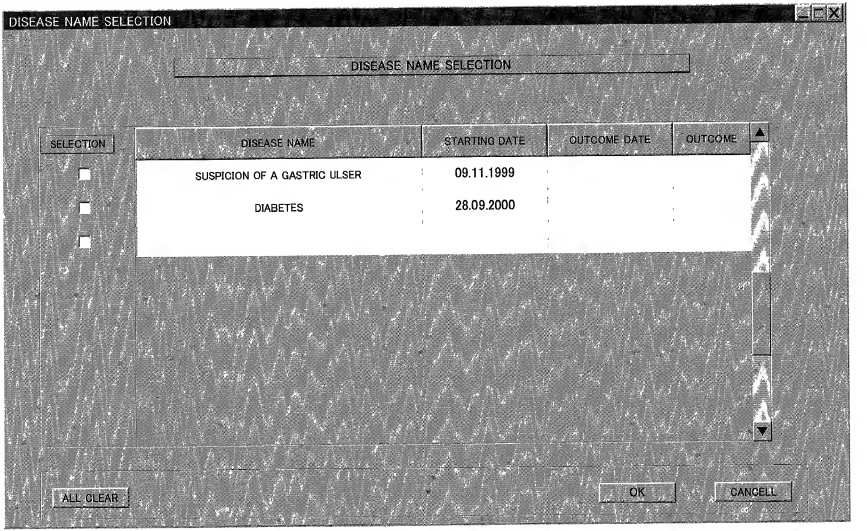

FIG. 15

MEDICAL CONSULTATION DATE SELECTION SCREEN

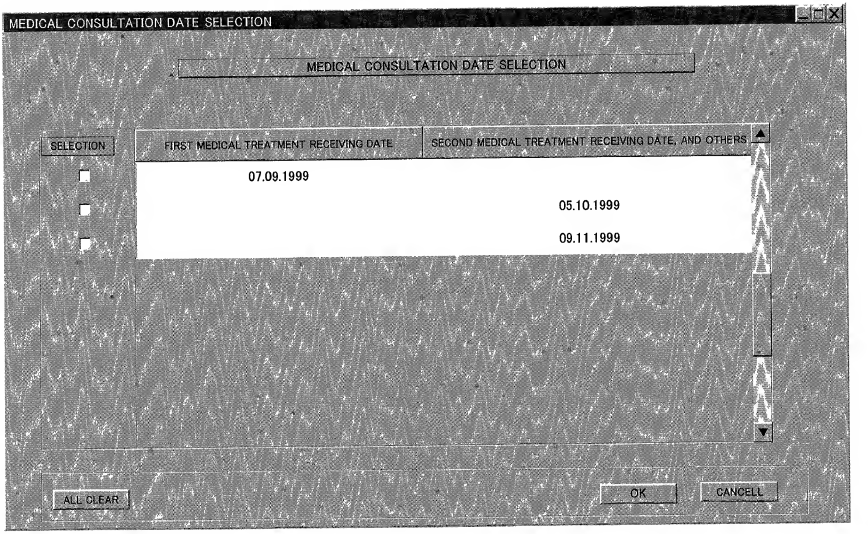

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FIG. 16

TEST RESULT SELECTION SCREEN

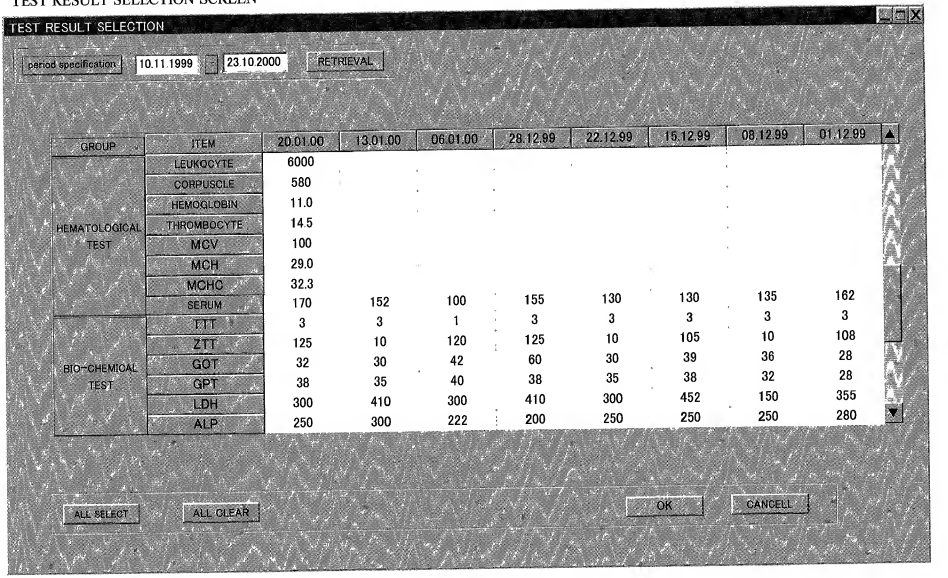


FIG. 17

DATE INFORMATION INPUT DIALOG SCREEN

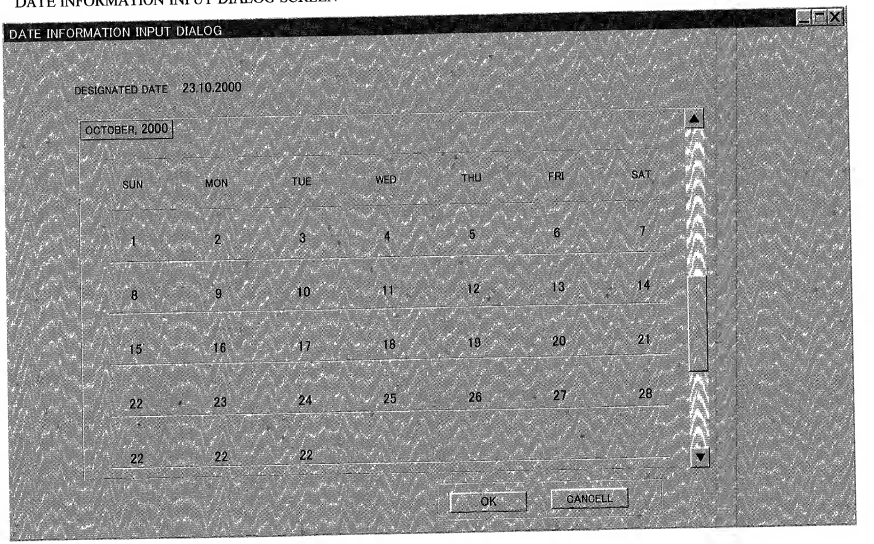


FIG. 18

IMAGE SELECTION SCREEN

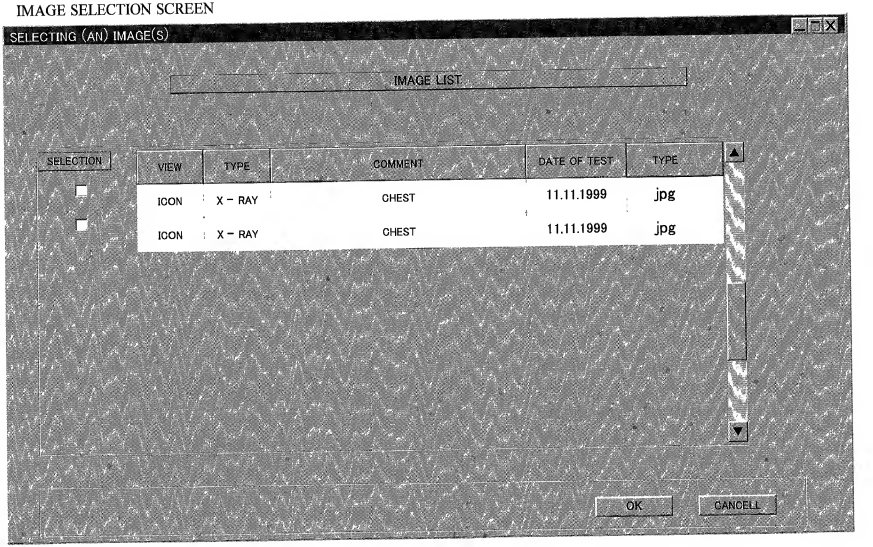
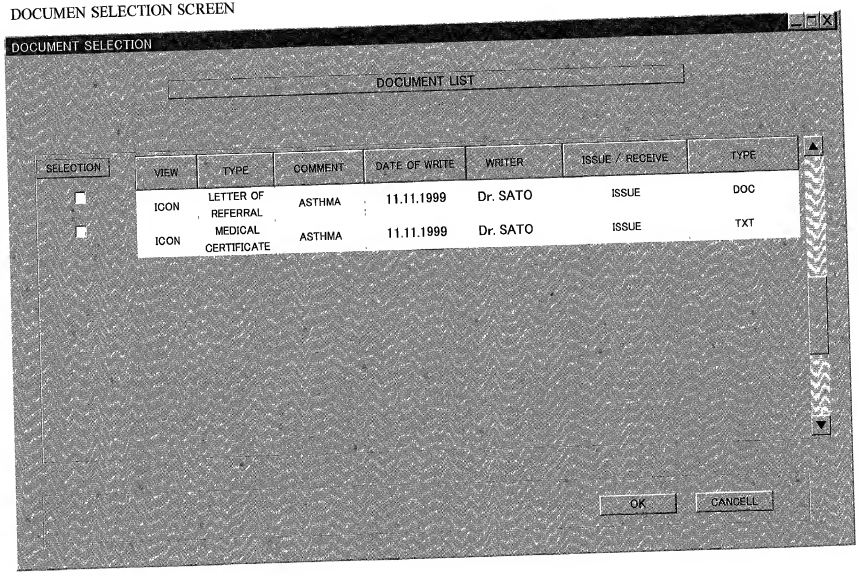


FIG. 19

DOCUMEN SELECTION SCREEN



BROWSER SCREEN (CLINIC SIDE)

FIG. 20(a)

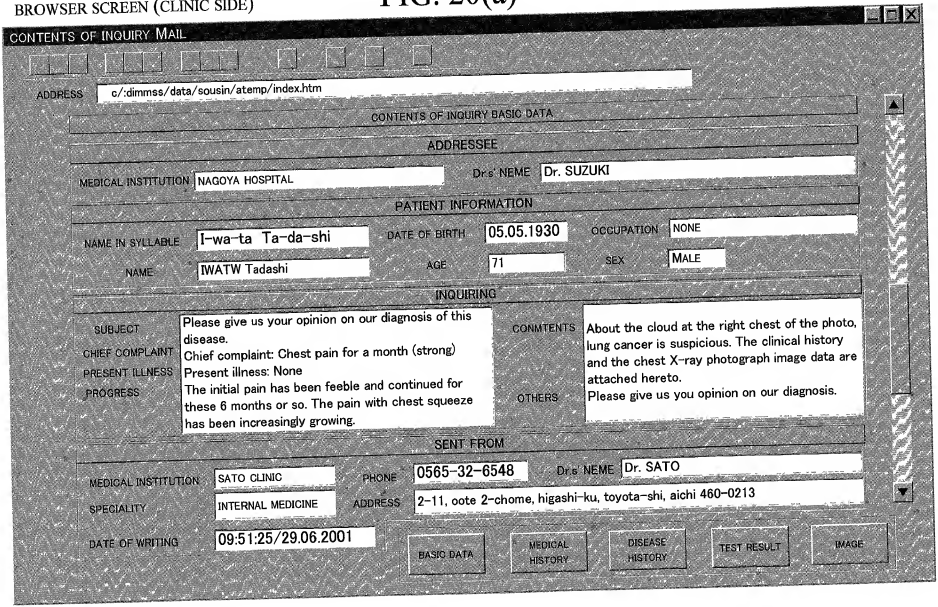


FIG. 20(b)

BROWSER SCREEN (CLINIC SIDE)

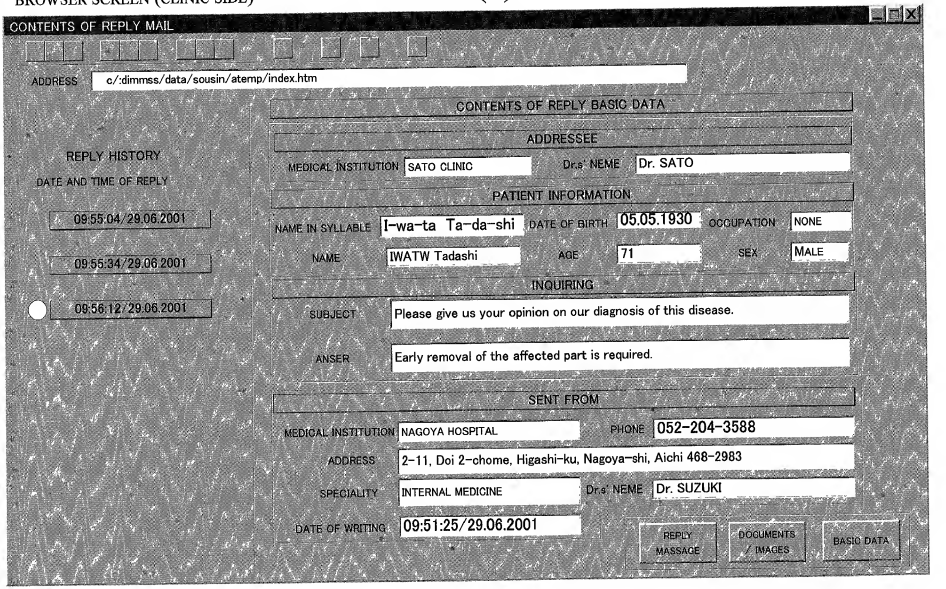


FIG. 21

INQUIRY/REPLY MAIL LIST SCREEN (HOSPITAL SIDE)

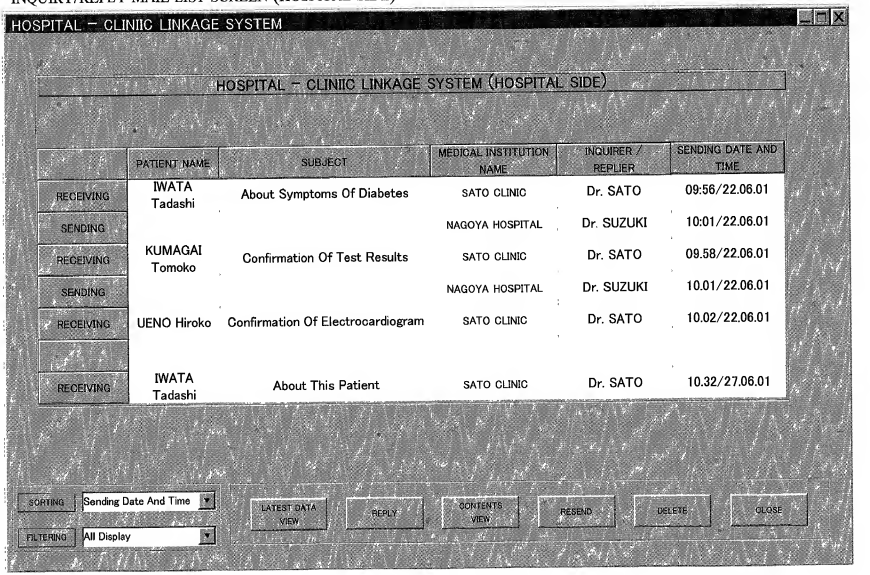


FIG. 22

SENDING DATA CREATION SCREEN(HOSPITAL SIDE)

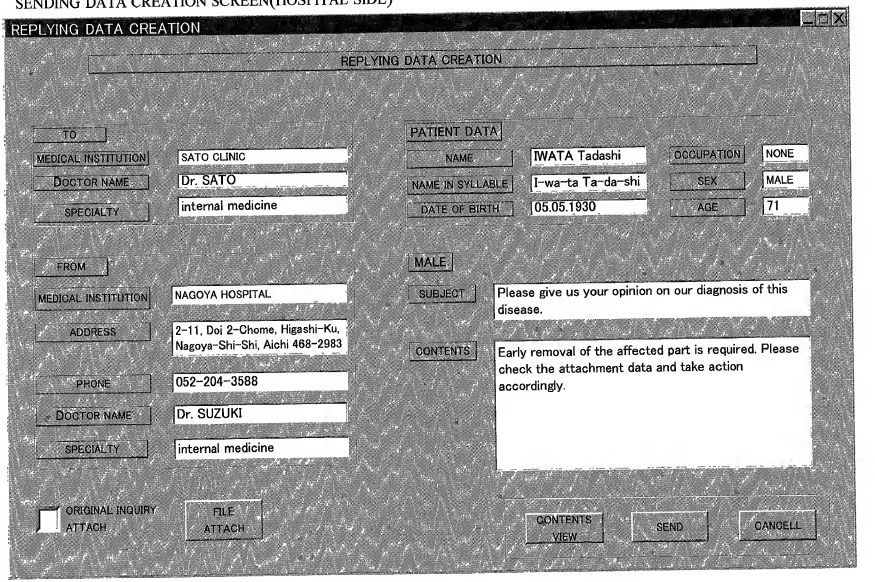


FIG. 23

ATTACHED DATA SELECTION SCREEN (HOSPITAL SIDE)

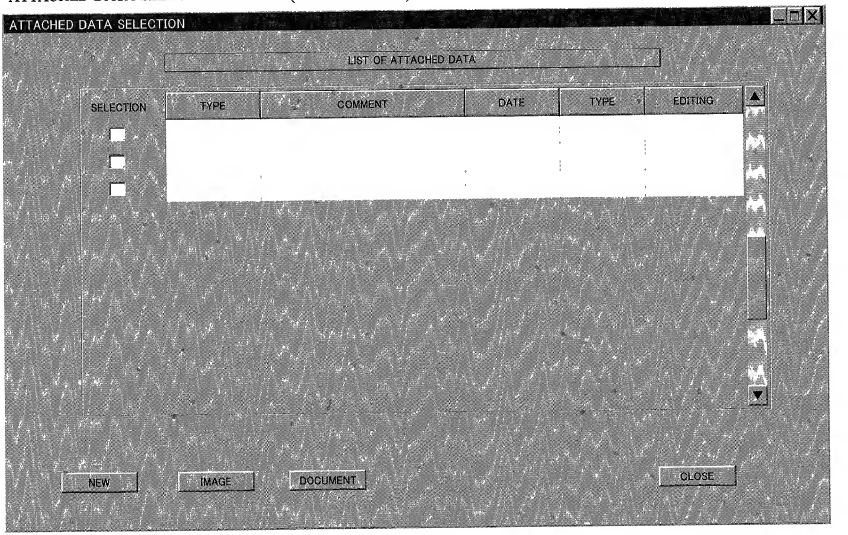


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FIG. 24

ATTACHED DATA SELECTION SCREEN (HOSPITAL SIDE)

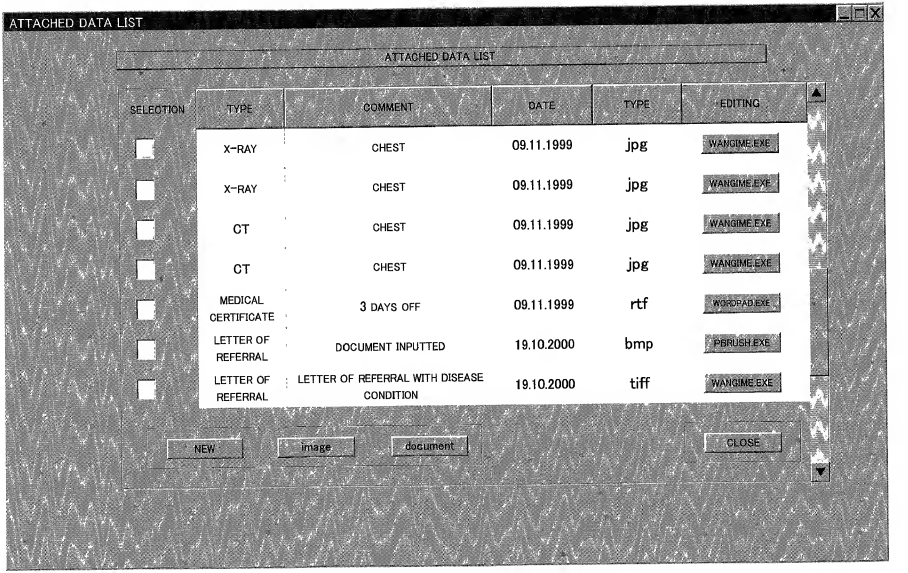


FIG. 25

ATTACHED DATA LIST SCREEN (HOSPITAL SIDE)

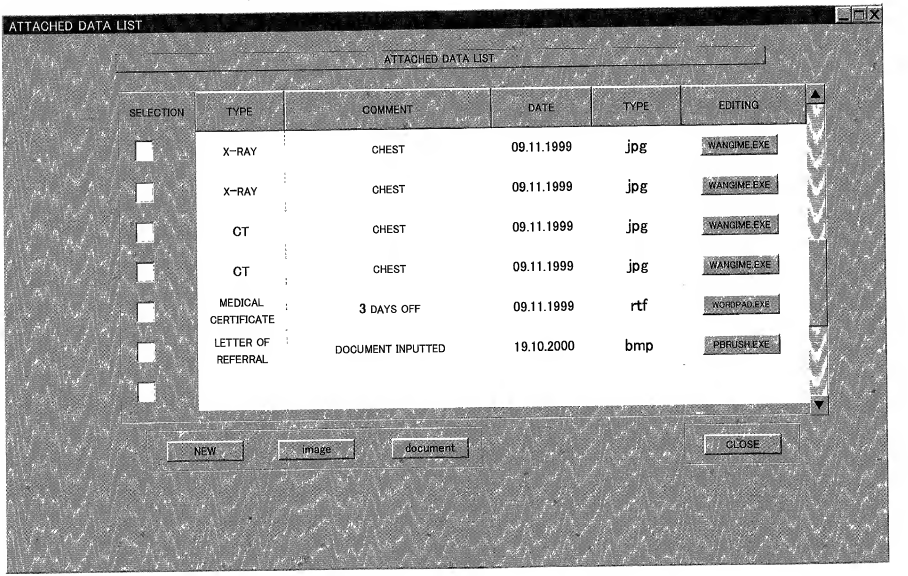


FIG. 26

ATTACH FILE ADDITION DIALOG SCREEN

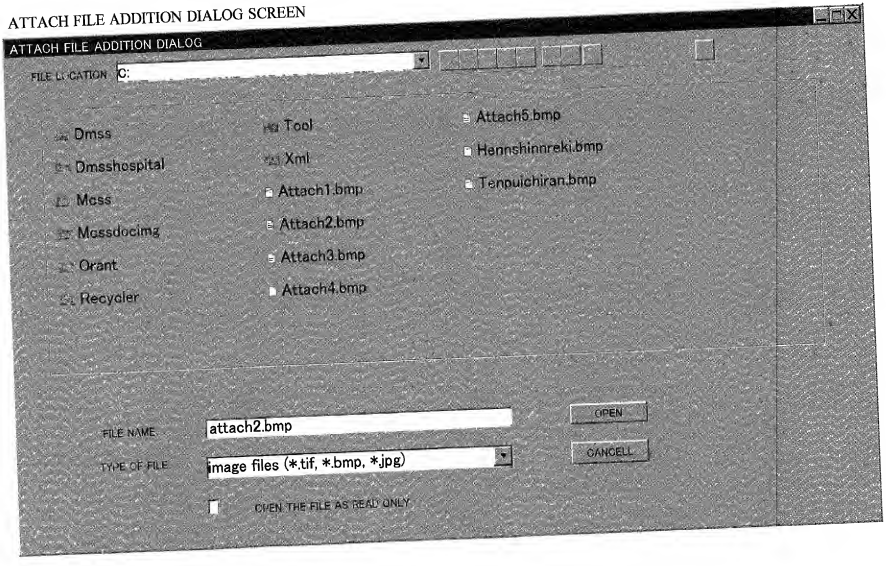
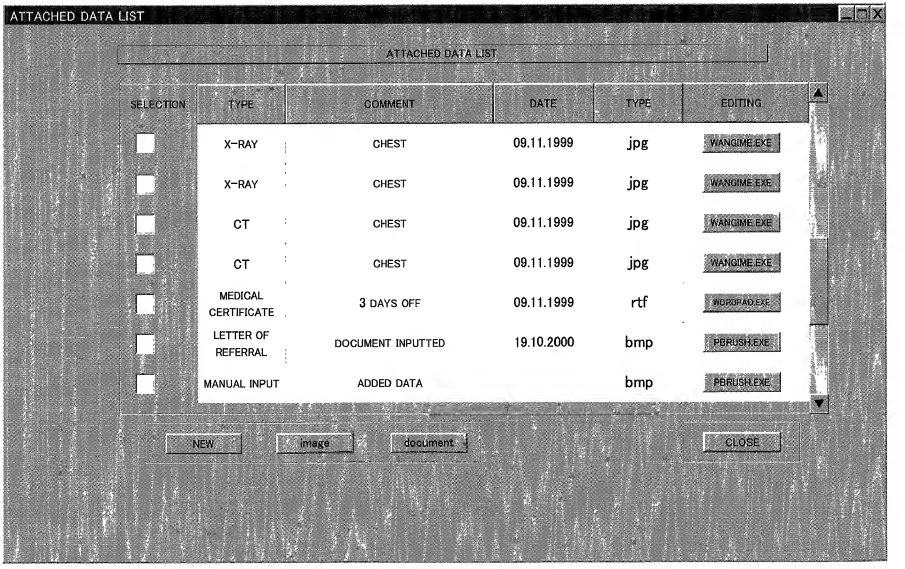


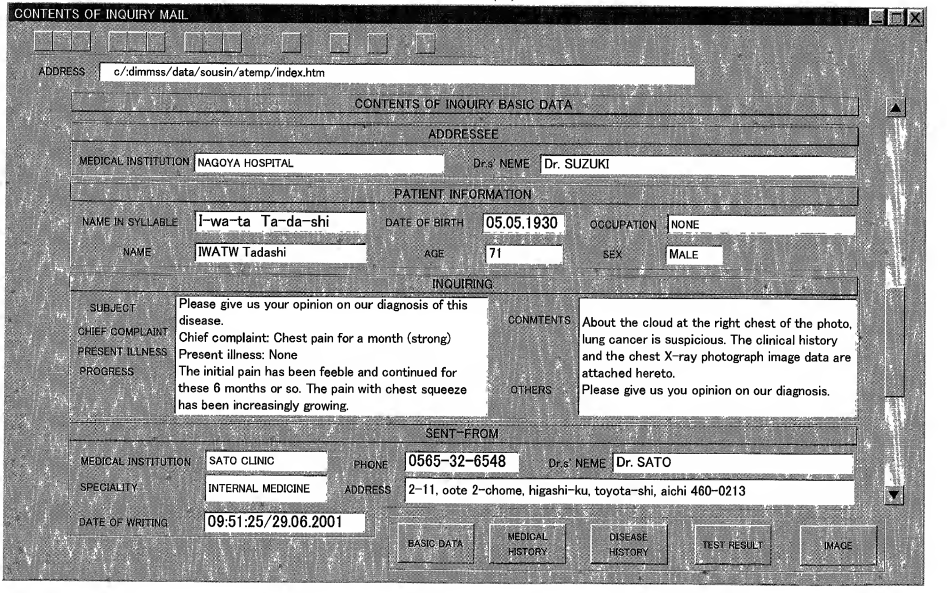
FIG. 27

ATTACHED DATA LIST SCREEN (HOSPITAL SIDE)



BROWSER SCREEN (HOSPITAL SIDE)

FIG. 28(a)



BROWSER SCREEN (HOSPITAL SIDE)

FIG. 28(b)

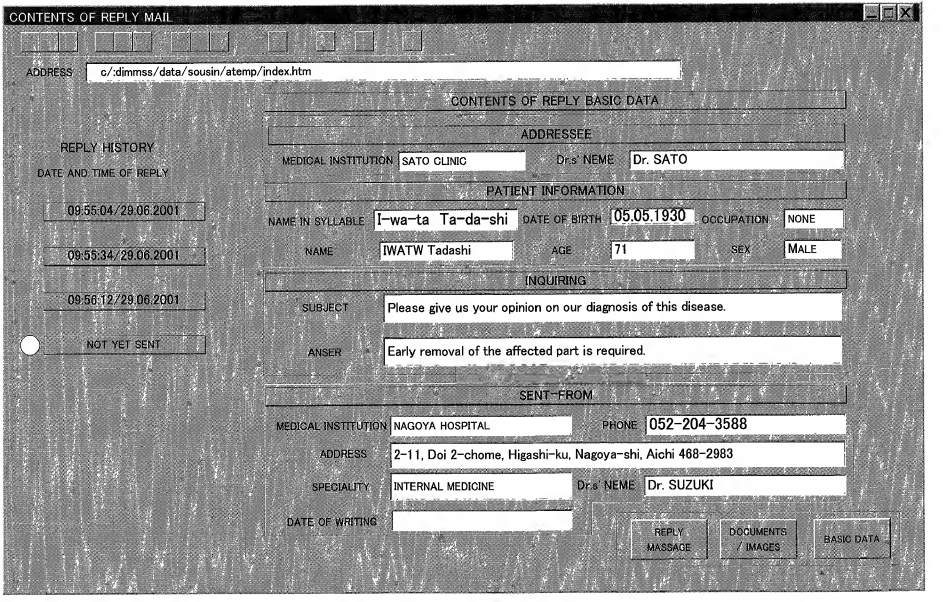


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FIG. 29

DATABASE (SENT/RECEIVED DATA, HOSPITAL SIDE)

MAIL ID	MESSAGE ID	MESSAGE TYPE	REPLY FLAG	MESSAGE STATUS	SERIAL NUMBER	LATEST FLAG	INQUIRY SEND TIME
1	TANAKA CLINIC 010610	1	2	1	1	1	
2	TANAKA CLINIC 010610	2	2	1	1	1	
3	ITO CLINIC 010611	1	2	1	1	1	
4	TANAKA CLINIC 010611	2	2	1	1	0	
5	TANAKA CLINIC 010611	2	2	2	2	1	

MAIL ID (AUTO NUMERING)

MESSAGE ID (TEXT TYPE)

MESSAGE TYPE (1:INQUIRY, 2:REPLY)

REPLY FLAG (1:NOT REPLY, 2:REPLIED)

MESSAGE STATUS (1:READ, 2:NOT READ, 3:SENT)

SERIAL NUMBER (SERIAL NUMBER OF DOCUMENT)

LATEST FLAG (0:NOT LATEST, 1:LATEST)